

- Family of enzymes that cleave penicillins and cephalosporins very efficiently
- A well characterised isoform is the 29 kD TEM-1 Beta-lactamase
 - 3D structure
 - Hydrolysis mechanism
 - Substrates and inhibitors
- Plasmid encoded ampicillin resistance gene from *E. coli*

Figure 1.

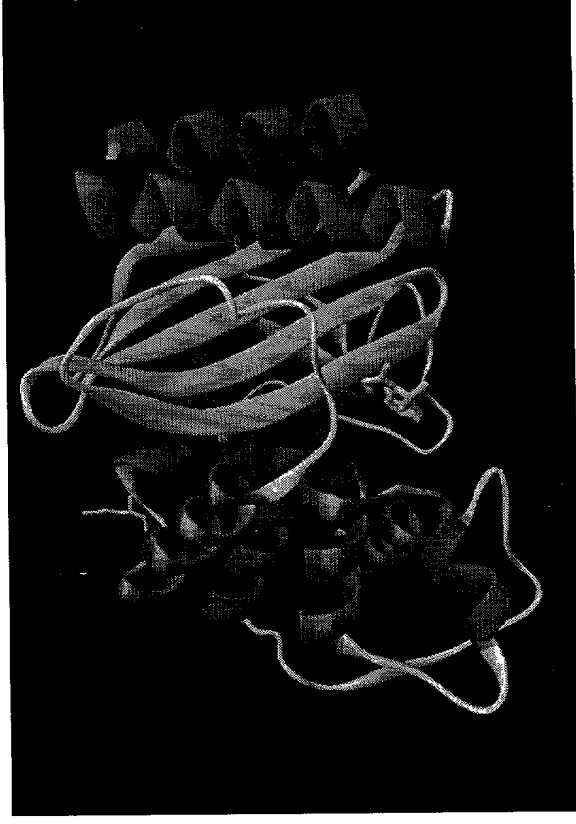
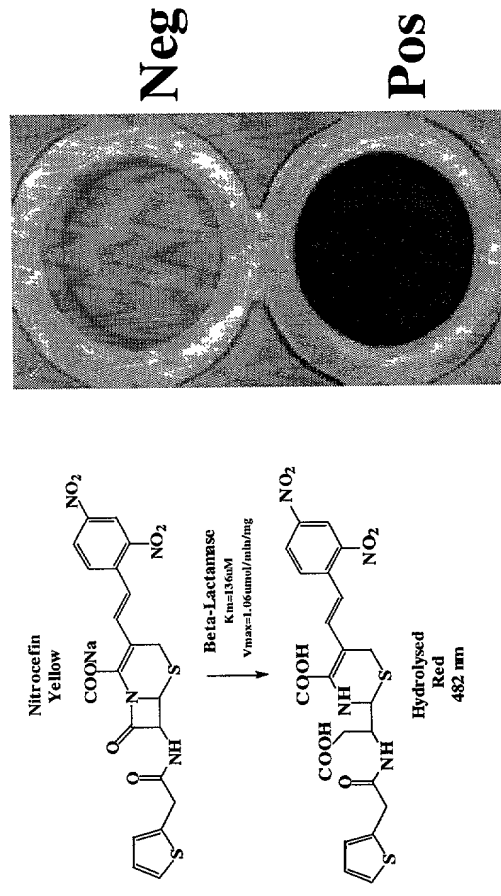


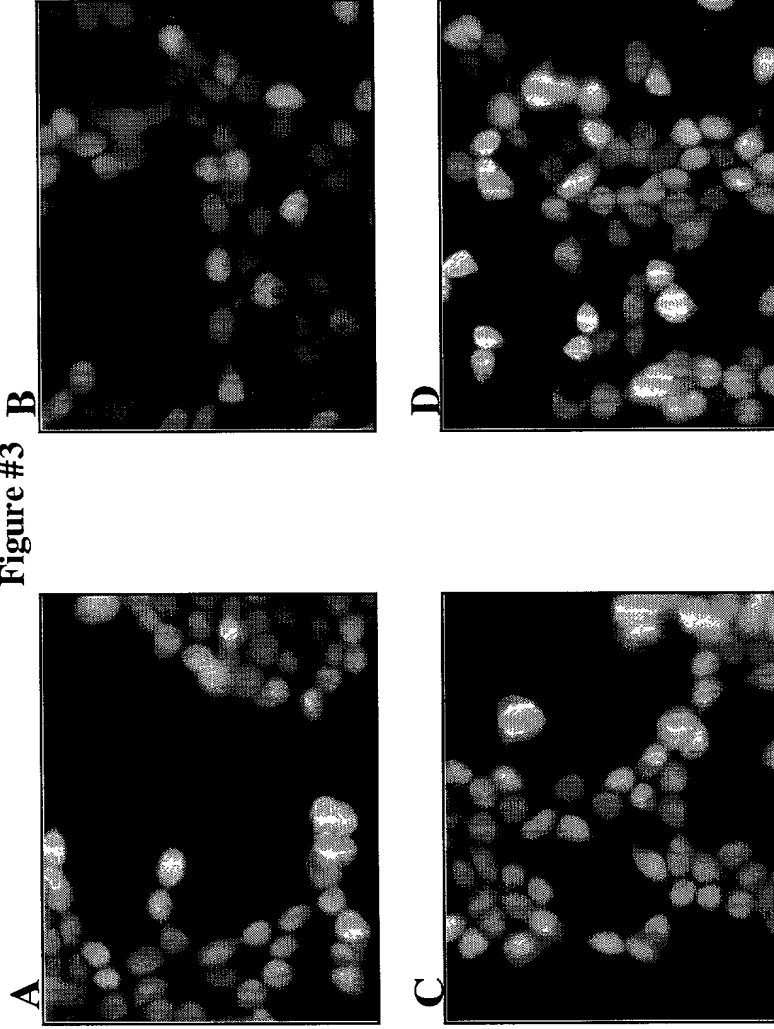
Figure #2



2A

2B

Figure #3

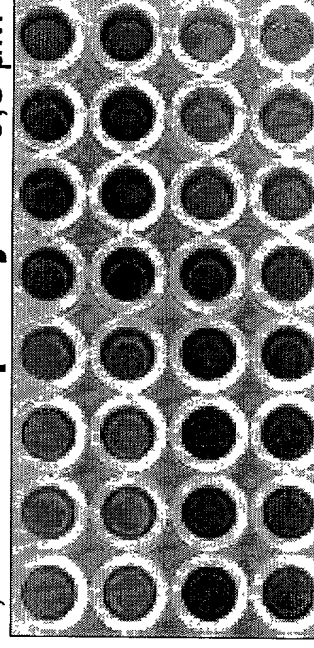


FKBP/FRB Domain Figure #4



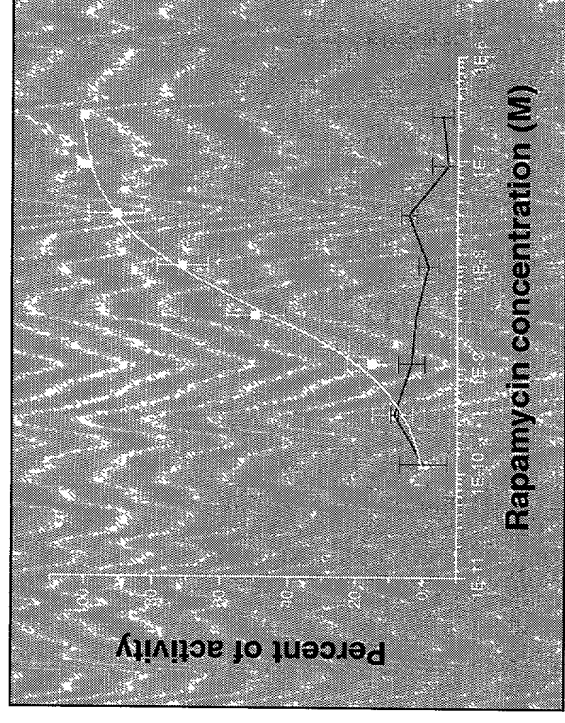
A

0,15 nM Rapamycin 0,3 μ M

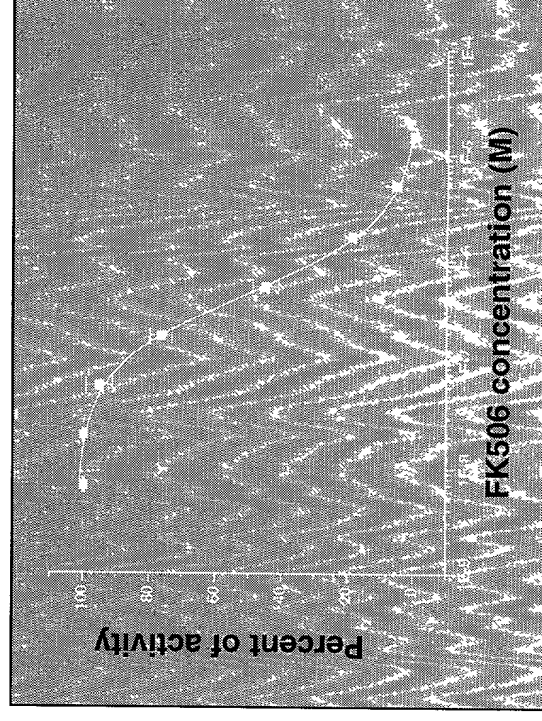


6,9 nM FK506 15 μ M

B



C



D